F10/30/000 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless a contains a valid OMB control number

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known						
Application Number	10/716,827					
Filing Date	November 20, 2003					
First Named Inventor	BABIN					
Art Unit	1793					
Examiner Name	T. HEITBRINK					
Attorney Docket Number	10984-1052					

	U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No.1	Document Number  Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear	
RUH		US- 3,553,788	01/12/1971	Putkowski		
TZVH.		US- 4,902,218	02/20/1990	Leonard et al.		
TUH		US- 5,004,416	04/02/1991	Van Den Brink		
TWH.		US- 5,067,893	11/26/1991	Osuna-Diaz		
TWH		US- 5,360,333	11/01/1994	Schmidt		
TWH.		US- 5,411,392	05/02/1995	Von Buren		
ADK.		US- 5,830,524	11/03/1998	Braun		
ZUH .		US- 5,973,298	10/26/1999	Juliano et al.		
TWN		US- 6,086,356	07/11/2000	Yu		
TUK		US- 6,280,177	08/28/2001	Döbler		
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

		FOREIGN PA	TENT DOCU	MENTS		
r		Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	۳
TWH.		EP 0 963 829	15/12/1999	Husky		
TOH		DE 42 30 758	03/17/1994	Wolff		
_						

Examiner Signature	Vin	Hiering	Date Considered	10-31-05	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (MPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

place a check mark nere if English language (ranslation is attached). This collection of information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b(05-03) Approved for use through 04/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

RASSISTANT 8 RASSISTANT 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known **Application Number** 10/716,827 Filing Date November 20, 2003 First Named Inventor **BABIN** Group Art Unit **Examiner Name** 

(use as many sheets as necessary)

Sheet of 2 Attorney Docket Number 10984-1052

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²			
Tuff		***EWIKON needle valve nozzle with absolutely symmetrical melt flow	į			
Tust Tust Tust Tust Tust		BORADA ENGINEERING INC. Non Planar Surfaces				
TWH		OHM CRAFT New Heater maker is sure to warm the hearts of designers				
WH		WALTOW ELECTRIC MANUFACTURING CO. Thick Film Manifold Heaters Help Deliver Hot Runner Precision				
nut		WATLOW ELECTRIC MANUFACTURING CO. Improve Part Quality and Reduce Cycle Time with Thick Film Nozzle Heating Technology				
		·				
	,					
	·					

Examiner	16 11 0: 6	Date	
Signature	View that brink	Considered	10-31-05

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through crauon it not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. On NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Equivalent of Form PTO/SB/08A (07-05)
Approved for use through 07/31/2006.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Paper of Reduction Act of 1995 of persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1	

Complete if Known					
Application Number	10/716,827				
Filing Date	November 20, 2003				
First Named Inventor	Denis BABIN				
Art Unit	1722				
Examiner Name	Heitbrink, Timothy W.				
Attorney Docket Number	2107.1830001/LEA				

	U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines,		
Initials*	No.1	Number-Kind Code <sup>2 (If Known)</sup> MM-DD-		Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear		
TWA	USI	5,049,062	09-17-1991	Gellert			
	US2						
	US3		·				
	US4						
	US5						
	US6						
	US7						
	US8			·			
	US9	,					
	US10						
	ÜS11			·			
	US12						
	US13						
	US14						
	US15		<u> </u>				
	US16						
	US17			<u></u>	·		
	US18						
	US19						
	US20						

		Fo	REIGN PATENT DO	CUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where	$\prod$
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (if known)		· · · · · · · · · · · · · · · · · · ·	Relevant Passages or Relevant Figures Appear	Te
TWH	FPI	JP 2005041020 A	02-17-2005	Ikegami Kanagata Kogyo KK		
	FP2					
	FP3					
	FP4					
	FP5					
	FP6					
	FP7					
	FP8					
	FP9					

432077 1.DOC

Examiner		Date	
Signature	View plit brucks	Considered	10-31-05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 'Applicant's unique citation designation number (optional). 'See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 'For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 'Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.